

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 2 of 14

Attorney's Docket No.: 07844-468001 / P432

#### Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

#### Listing of Claims:

1. (Currently Amended) A ~~text composition spacing amount setting device for a desktop publishing (DTP) system, comprising:~~

at least one inter-character-class spacing amount setting table, for use in line composition, for grouping similar characters, forming a plurality of character classes and for setting inter-character spacing amounts between a character class of a previous character and a character class of a next character within a pair of ~~continuous~~ contiguous characters;

a display device for displaying electronic text that has been line composed; and

an input device for providing user input;

wherein the DTP system includes a basic settings mode and a detailed settings mode operable to receive an inter-character spacing amount input from a DTP system user, the text composition spacing amount setting device has a the basic settings mode for setting modifying the inter-character spacing amounts using a character class relationship table defining a relationship between the character class for the previous character and the character class for the next character and a the detailed settings mode for setting modifying the inter-character spacing amounts directly without using the character class relationship table.

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 3 of 14

Attorney's Docket No.: 07844-468001 / P432

2. (Currently Amended) The ~~text composition spacing amount setting device-DTP system~~ of claim 1, wherein the plurality of character classes includes one or more of (1) starting parenthesis, (2) ending parenthesis, (3) characters that cannot appear at the start of a line, (4) non-centered punctuation, (5) centered punctuation, (6) period, (7) comma, (8) repeating characters that cannot be broken across lines, (9) preceding abbreviation code, (10) following abbreviation code, (11) full-width ideographic spaces, (12) hiragana, (13) Japanese characters other than character classes (1) through (12), (14) full-width numeral, (15) half-width numeral, (16) half-width Roman text, (17) start of line, (18) start of paragraph, and (19) end of line.

3. (Currently Amended) The ~~text composition spacing amount setting device-DTP system~~ of claim 1, wherein the character class relationship table associates the same inter-character spacing amount between the class of the previous character and the class of the next character in ~~a pair of contiguous characters, two adjacent character sets, each character set including a previous character and a next character.~~

4. (Currently Amended) The ~~text composition spacing amount setting device-DTP system~~ of claim 2, wherein the character class relationship table provides the same inter-character spacing amount if the character class for either the previous character or the next character is non-punctuation (that is, any of character classes (3), (4), (8), (9), (10), (12), (13), (14), (15), or (16) or if the character class for either the previous character or the next character is (5) centered punctuation.

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 4 of 14

Attorney's Docket No.: 07844-468001 / P432

5. (Currently Amended) The ~~text composition spacing amount setting device~~ DTP system of claim 4, wherein the inter-character spacing amount can be set by a user input in the basic settings mode of the DTP system if the character class for the previous character and the character class for the next character have any of the following relationships:

- 1) Non-punctuation ->Starting parenthesis,
- 2) Ending parenthesis ->Non-punctuation,
- 3) Ending parenthesis ->Starting parenthesis,
- 4) Period ->Starting parenthesis,
- 5) Period ->Non-punctuation,
- 6) Comma ->Starting parenthesis,
- 7) Comma ->Non-punctuation,
- 8) Centered punctuation -><-Centered punctuation,
- 9) Half-width Roman text -><-Non-punctuation,
- 10) Start of paragraph ->Starting parenthesis,
- 11) Start of paragraph ->Non-punctuation,
- 12) Start of line ->Starting parenthesis,
- 13) Ending parenthesis ->End of line,
- 14) Period ->End of line,
- 15) Comma ->End of line,
- 16) Centered punctuation ->End of line.

6. (Currently Amended) The ~~text composition spacing amount setting device~~ DTP system of claim 5, wherein the user settable inter-character spacing amount for items 1)through 16)are displayed in a dialog box on the display device, and wherein the ~~text composition spacing amount setting device further~~ DTP system is operable to receive an DTP system user input setting an optimum value, a minimum value, and a maximum value for the inter-character spacing amount for each item 1) through 16).

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 5 of 14

Attorney's Docket No.: 07844-468001 / P432

7. (Currently Amended) The ~~text composition spacing amount setting device~~ DTP system of claim 1, wherein a spacing amount setting file is provided in which file a file name can be attached to an inter-character-class spacing amount setting table having spacing amounts set by a DTP system user and saved, the inter-character-class spacing amount setting table saved in the file being accessible and modifiable by a user in either the basic settings mode or in the detailed settings mode.

8. (Currently Amended) A computer program product, tangibly stored on a computer-readable medium, for setting ~~[[at]]~~ a text composition spacing amount in a desktop publishing (DTP) system, comprising instructions operable to cause a programmable processor to:

display on a display device a spacing amount saved in an inter-class character table in response to a DTP system user selection in the inter-character class spacing amount setting table, for use in line composition, the inter-character class spacing amount setting table grouping similar characters, forming a plurality of character classes and ~~for~~ defining inter-character spacing amounts between a character class of a previous character and a character class of a next character within a pair of ~~continuous~~ contiguous characters; and

display on a display device the spacing amount saved in the inter-character class spacing amount setting table in a DTP system mode selected by a user input, the mode being selected from: a basic settings mode setting operable to receive an input from a DTP system user for modifying the inter-character class spacing amounts using a character class relationship table defining a relationship between the character class for the previous character and the character class for the next character for the selected inter-character-class spacing amount setting table, and a detailed settings mode operable to receive an input from a DTP system user for setting modifying the inter-character class spacing amounts directly without using the character class relationship table.

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 6 of 14

Attorney's Docket No.: 07844-468001 / P432

9. (Original) The computer program product of claim 8, wherein the plurality of character classes includes one or more of: (1) starting parenthesis, (2) ending parenthesis, (3) Japanese characters that cannot appear at the start of a line, (4) non-centered punctuation, (5) centered punctuation, (6) period, (7) comma, (8) repeating characters that cannot be broken across lines, (9) preceding abbreviation code, (10) following abbreviation code, (11) full-width ideographic spaces, (12) hiragana, (13) Japanese characters other than character classes (1) through (12), (14) full-width numeral, (15) half-width numeral, (16) half-width Roman text, (17) start of line, (18) start of paragraph, and (19) end of line.

10. (Currently Amended) The computer program product of claim 9, wherein the character class relationship table associates the same inter-character spacing amount between the class of the previous character and the class of the next character in a pair of contiguous characters, ~~two adjacent character sets, each character set including a previous character and a next character.~~

11. (Currently Amended) The computer program product of claim 10, wherein the character class relationship table provides the same inter-character spacing amount if the character class for either the previous character or the next character is non-punctuation (that is, any of character classes (3), (4), (8), (9), (10), (12), (13), (14), (15), (16), or if the character type of either the previous character or the next character is (5) centered punctuation.

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 7 of 14

Attorney's Docket No.: 07844-468001 / P432

12. (Currently Amended) The computer program product of claim 11, wherein the inter-character spacing amount can be set by a user input in the basic settings mode if the character class for the previous character and the character class for the next character have any of the following relationships:

- 1) Non-punctuation ->Starting parenthesis,
- 2) Ending parenthesis ->Non-punctuation,
- 3) Ending parenthesis ->Starting parenthesis,
- 4) Period ->Starting parenthesis,
- 5) Period ->Non-punctuation,
- 6) Comma ->Starting parenthesis,
- 7) Comma ->Non-punctuation,
- 8) Centered punctuation -><-Centered punctuation,
- 9) Half-width Roman text -><-Non-punctuation,
- 10) Start of paragraph ->Starting parenthesis,
- 11) Start of paragraph ->Non-punctuation,
- 12) Start of line ->Starting parenthesis,
- 13) Ending parenthesis ->End of line,
- 14) Period ->End of line,
- 15) Comma ->End of line,
- 16) Centered punctuation ->End of line.

13. (Currently Amended) The computer program product of claim 12, further comprising instructions operable to cause a programmable processor to:

display the user settable spacing amount for items 1) through 16) in a dialog box on the display device; and

receive a DTP system user input setting an optimum value, a minimum value and a maximum value for the spacing amount for each item 1) through 16).

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 8 of 14

Attorney's Docket No.: 07844-468001 / P432

14. (Currently Amended) The computer program product of claim 8, wherein a spacing amount setting file is provided in which file a file name can be attached to an inter-character class spacing amount setting table having spacing amounts set by a DTP system user and saved, the inter-character class spacing amount setting table saved in the file being accessible and modifiable by a user in either the basic settings mode or in the detailed settings mode.

15. (Currently Amended) ~~A text composition spacing amount setting device for a DTP system, comprising:~~

at least one inter-character-class spacing amount setting table, for use in line composition, that the at least one inter-character-class spacing amount setting table grouping similar characters, forming a plurality of character classes and for setting inter-character spacing amounts between a character class of a previous character and a character class of a next character within a pair of ~~continuous~~ contiguous characters;

a display means capable of displaying electronic text that has been line composed; and  
an input means with which a user can perform input; and

~~wherein the a~~ a spacing amount setting means is operable to start in response to a user input and has having a basic settings mode and a detailed setting mode operable to receive an inter-character spacing amount input from a DTP system user, a-the basic settings mode that for modifying sets the inter-character spacing amounts using a character class relationship table that defines the relationship between the character class of the previous character and the character class of the next character, and a-the detailed settings mode that for modifying sets the inter-character spacing amounts directly without using the character class relationship table.

Applicant : Nathaniel M. McCully, et al.  
Serial No. : 09/963,802  
Filed : September 25, 2001  
Page : 9 of 14

Attorney's Docket No.: 07844-468001 / P432

16. (Currently Amended) A computer readable recording medium recording a text composition spacing amount setting program for executing by a computer in a desktop publishing system, comprising:

a procedure for displaying on a display means a spacing amount saved in an inter-character-class spacing amount setting table when a user selects the inter-character-class spacing amount setting table, for use in line composition, that the inter-character-class spacing amount setting table grouping similar characters, forming a plurality of character classes and for setting inter-character spacing amounts between a character class of a previous character and a character class of a next character within a pair of ~~continuous~~ contiguous characters; and

a procedure for displaying on a display means the spacing amount saved in the inter-character-class spacing amount setting table in a mode selected by the user from: a basic settings mode ~~that~~ operable to receive an input from a DTP system user for modifying sets the inter-character spacing amounts using a character class relationship table that defines the relationship between the character class of the previous character and the character class of the next character for said selected inter-character-class spacing amount setting table, and a detailed settings mode operable to receive an input from a DTP system user for modifying that sets the inter-character spacing amounts directly without using the character class relationship table.